

## WHAT IS CLAIMED IS:

1 – A system for testing a mobile telephony network having a plurality of cells whose sizing depends on at least one selection or reselection parameter, of the type comprising one or more mobile test phones and an onboard computer connected to the mobile telephone or telephones, wherein predefined values of the selection and reselection parameters are stored in the computer and wherein the mobile telephone comprises a presetting function to receive the predefined value of the selection and reselection parameters.

2 – A test system according to claim 1, comprising an onboard GPS unit associated with the mobile telephone and with the computer.

3 – A test system according to either of the claims 1 and 2, wherein the selection or reselection parameter is a parameter making it possible to determine the coefficient C1 or C2, for the GSM mode or the coefficient C31 or C32, for the GPRS mode.

4 – A test system according to any of the claims 1 to 3, wherein several test telephones are connected to the same computer.

5 – A method for testing a mobile telephony network having a plurality of cells whose sizing is a function of at least one selection or reselection parameter, wherein the method comprises the following steps:

- the recording, in the computer, of predefined values of the selection and reselection parameters for each cell of the zone to be tested,
- the presetting, for each cell of the zone to be tested, of the predefined values of the selection and reselection parameters, and the capture of data obtained by the mobile telephone for each cell,
- the processing of the captured data and the determining of the sizing of each tested cell.

6 – A method according to claim 5, wherein the presetting of the value of a selection or reselection parameter consists of the overwriting of the value of the selection or reselection parameter received from the network by the predefined value of the selection or reselection parameter.

7 – A method according to claim 5 or 6 wherein, when all the cells

have been sized, an optimization of the network is set up.

8 – A method according to any of the claims 5 to 7, wherein the values of several selection or reselection parameters are preset simultaneously for a same cell.

5           9 – A method according to any of the claims 5 to 8, wherein several values of the same selection or reselection parameter are preset simultaneously, for a same cell, on several test telephones.

10           10 – A method according to any of the claims 5 to 8, wherein the value of the selection or reselection parameter is preset simultaneously on several test telephones and the pieces of data captured by these test telephones are averaged.